

ENDURA

Single Unit Rapid Charger FOR RECHARGEABLE LMR BATTERIES



Model: NCC0325

Introduction

Thank you for purchasing an ENDURA™ NCC0325, Single Unit Rapid Charger. This high quality product is designed for use with rechargeable LMR batteries. With the appropriate charging pod installed, it can charge batteries with:

Lithium ion (Li-Ion), nickel metal hydride (NiMH), or nickel cadmium (NiCd) chemistry.

Important

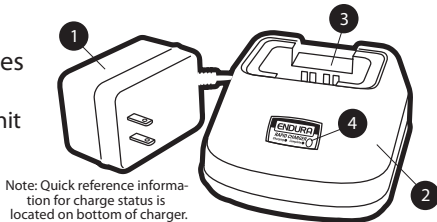
1. Read all Caution statements below and this User Manual before attempting to charge a battery.
2. Check to make sure a charging pod compatible with your battery is properly installed on charger before placing battery in pod.
3. Position charger away from TVs, radios, or other receivers to prevent the charger from interfering with these types of products.
4. Always charge new batteries completely before initial use. Recycle batteries when they can no longer be used. Do not discard unwanted batteries in the trash or incinerate. Batteries exposed to fire or excessive heat may explode.
5. For best battery performance, charge NiCd and NiMH batteries when they are fully discharged.

Caution

1. Never charge alkaline or dry cell batteries with this charger. They may burst and cause damage or personal injury.
2. Do not charge Li-Ion, NiMH, or NiCd batteries unless they are designed with overcharge protection.
3. Use charger indoors only. Do not expose the charger to rain, any liquids, or excessive moisture.
4. Do not attempt to charge a battery without first installing the appropriate charging pod. Use only charging pods designed for the ENDURA™ NCC0325 charger. Disconnect charger from power supply before installing, adjusting, or removing the charging pod.
5. Make sure contacts in charging pod and battery are clean. Do not allow wire or metal objects to touch contacts in charging pod or any internal part of the charger.
6. Do not remove the charger's housing or make any modification to the charger.
7. Use only the power supply provided with the ENDURA™ NCC0325 charger. If a replacement power supply is required, order part number NCC0325. Use of other power supplies may damage the charger or batteries you may be attempting to charge.

ENDURA™ NCC0325 Features

1. Power Supply
2. Endura™ NCC0325 Single Unit Rapid Charger
3. Removable Charging Pod
4. Charge Status LED



Replacing A Charging Pod

The charging pod is made from quality materials and designed to provide years of service when properly used. In most cases, the charging pod will only be replaced when you want to use the charger with a different battery.

Follow these steps to change the charging pod:

1. Obtain a charging pod made specifically for the ENDURA™ NCC0325. Confirm that the charging pod is compatible with the battery you want to charge.
2. Unplug the AC to DC power supply from the ENDURA™ NCC0325.
3. Turn the locking screw on the bottom of the charging pod counter-clockwise several rotations. (The screw remains connected to the charging pod.) Lift the charging pod from the charging base.
4. Insert the replacement charging pod into the charging base and secure with the locking screw. Do not over tighten the screw.
5. Inspect the charging contacts to ensure they are clean and unobstructed.
6. Connect the AC to DC power supply to the ENDURA™ NCC0325. You are now ready to charge a battery compatible with the charging pod.

Charging A Battery

1. Confirm that the charging pod and battery are compatible.
2. Connect the DC end of the power supply to the DC plug on the back of the charger, then connect the AC adaptor to a wall outlet (120V AC).
3. Place battery to be charged in the charging pod. The battery may be charged while attached to the radio. Note: If the battery is attached to radio, turn the radio off while in the charger.
4. When a battery is placed in the charging pod, the charge status LED will illuminate ORANGE for a short period while the charger performs a battery diagnostic. Once completed, the charge status LED will change to RED. This indicates the battery is charging.
5. While a battery is charging, the charge status LED will illuminate RED with no flashing. If the charge status LED is red and flashes, a fault has been detected. The flash pattern represents a specific fault condition. See section Fault Conditions for details.
6. When the battery is charged to 80% of capacity, the charge status LED will change to GREEN and begin to flash. It is recommended that the battery be charged to at least 80% capacity before use.
7. The charge status LED will illuminate GREEN with no flashing when the battery is fully charged. Note: Remove battery from charger within 15 hours after charging is complete.
8. After removing a fully charged battery, the charge status LED may remain illuminated for a few seconds. Allow the charge status LED to go off before placing another battery in the charging pod.
9. The ENDURA™ NCC0325 is designed to operate at room temperatures between 15°C and 30°C. Charging batteries at room temperatures outside this range may result in under charging of batteries.

Fault Conditions

When the charge status LED flashes RED, a fault condition exists. There five different flash patterns, each indicating a specific type of fault. The flash patterns and fault conditions are as follows:

LED Flash Pattern	Fault Type
Flashes 1 Time	Indicates over-current condition caused by battery short circuit. Check battery contacts. Do not attempt charging the battery if short circuit exists.
Flashes 2 Times	Indicates battery diagnostic has “timed out” and cannot be completed due to excessively low battery voltage. Charge battery with charger supplier with radio, then resume use of ENDURA™ NCC0325.
Flashes 3 Times	Indicates over-heat condition for a Li-Ion battery. Battery temperature is over 43°C and charging has stopped. Battery protection circuit may be defective.
Flashes 4 Times	Indicates battery contact is “open” and current is not passing through the (+) and (-) contacts on the battery. Check charging pod to confirm compatibility with battery.
Flashes 5 Times	Indicates charging complete, but battery is under charged. Battery voltage is below minimum level required.

Warranty And Service During Warranty

The ENDURA™ NCC0325 is made from high quality materials and designed to provide years of reliable service. The following warranty applies:

Power Products Unlimited, Inc. (PPU) warrants this product to be free from defects in workmanship and materials for one-year from date of purchase by the end user. This warranty applies to the original purchaser and is void if the product has been altered, misused, damaged, neglected, purchased outside the United States, or if repair is required because of normal wear and tear. This is the only warranty made by PPU. In no event will PPU, its affiliates, subsidiaries, related entities, or their respective directors, officers, or employees, be liable for any damages beyond repair or replacement as described above, including without limitation, indirect, incidental, or consequential damages. For service under warranty, return the product along with dated proof of purchase to the retailer where purchased or to Power Products. If returning directly to Power Products, follow these instructions:

1. Send to Power Products – Warranty Service Department, 2170 Brandon Trail, Alpharetta, GA 30004. For your protection, we recommend you obtain proof of delivery for your shipment.
2. Include with your product, dated proof of purchase, your name and daytime telephone number, and return address (street address only; return shipments cannot be made to a P.O. Box).
3. All items sent become the property of Power Products and will not be returned.

ENDURA™ NCC0325 Specifications

Dimensions	115 x 136 x 66 mm / 4.5 x 5.4 x 2.6 inches
Weight (Charger Only)	275 g / .6 lbs.
Compatible Chemistries	NiCd / NiMH / Li-Ion
Operating Temperature	15° C – 30° C
Storage Temperature	0° C – 65° C
Power Supply Type	AC to DC
Power Supply Output	15V – 18V DC (500mA – 900mA)

Specifications subject to change without notice.



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